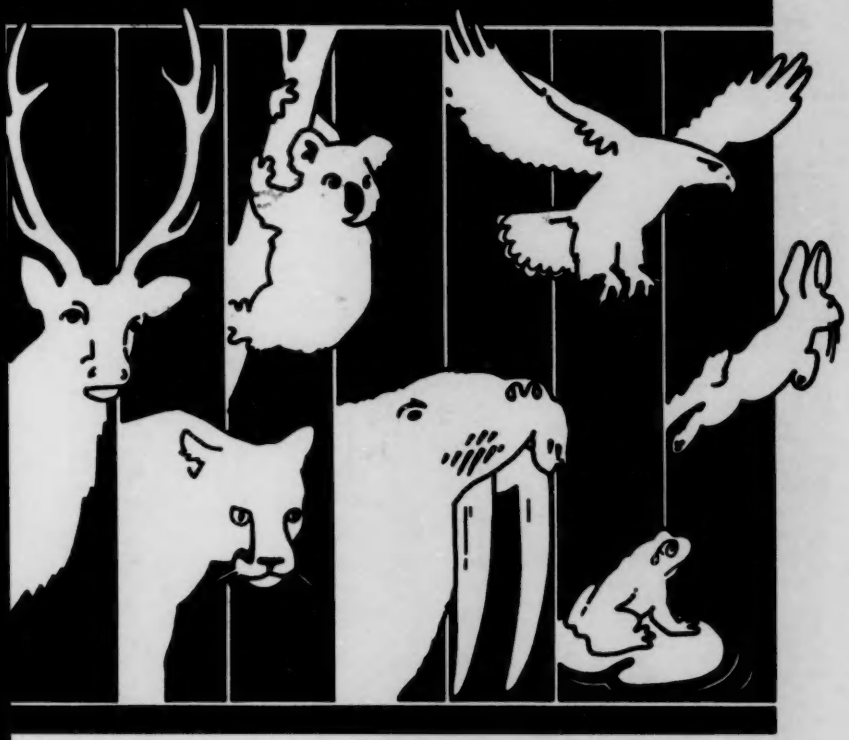
WILDLIFE *Review*



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WILDLIFE REVIEW

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[I.C.T. Nisbet & Co., Lincoln, MA 01773] *Sterna hirundo.*

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[Katedra Ekol. & Zool. Kregowcow, Univ. Gdanski, ul. Czolgistow 46, 81-378 Gdynia, Poland] *Larus ridibundus* in Poland.

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90-003931 Overal, Bernard. [CONSIDERING AN OCCURRENCE IN BELGIUM: PROOF OF REPRODUCTION OF THE BLACK STORK, (*CICONIA NIGRA*).] *Aves* 26(2):122-125. 1989. In French. WR 217
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[Nat. Conserv. Counc., Northminster House, Peterborough PE1 1UA, England]

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[Dep. Biol. Anim. II (Fisiol. Anim.), Fac. Cienc. Biol., Univ. Complutense, 28040 Madrid, Spain] *Phoenicopterus chilensis.*

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[Hamakerlaan 22, 3571 ZG Utrecht, Netherlands]

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[Dip. Biol. Anim., Univ. Pavia, Piazza Botta 9, 27100 Pavia, Italy]

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[2205 Ewart Ave., Saskatoon, SN, Canada S7J 1Y1] *Himantopus mexicanus* in Canada.

90-003942 Saliva, Jorge E. BEHAVIORAL THERMOREGULATION OF BREEDING SOOTY TERNS. *Colon. Waterbird Soc. Newsl.* 13(2):26. 1989. Abstract only. WR 217
[Dep. Biol., Rutgers Univ., P.O. Box 1059, Piscataway, NJ 08855] *Sterna fuscata*.

90-003943 Salzman, A. G. THE SELECTIVE IMPORTANCE OF RARE THERMAL EVENTS ON GULL NEST LOCATION. *M.S. thesis, Univ. Calif. (Irvine)* 45p. 1981. WR 217
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[68 (1 Floor), Santhome High Rd., Madras-600 028, India]

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[Northwest. Mich. Coll., Traverse City 49684] *Sterna hirundo*.

90-003948 Schauffler, Rick; Glen Mittelhauser and Erica Desmond. A COMPARISON OF METHODS FOR DETERMINING SPECIES RATIO IN A MIXED COLONY OF ARCTIC AND COMMON TERNS. *Colon. Waterbird Soc. Newsl.* 13(2):22. 1989. Abstract only. WR 217
[Island Res. Cent., Coll. Atlantic, Eden St., Bar Harbor, ME 04609] *Sterna paradisaea* and *S. hirundo* in Maine.

90-003949 Seals, C. A.; W. Post; L. Glover and K. Calhoon. FIRST INLAND NESTINGS OF BLACK-CROWNED NIGHT-HERONS IN THE CAROLINAS. *Chat* 53(4):88-89. 1989. WR 217
[Charleston Mus., 360 Meeting St., Charleston, SC 29403] *Nycticorax nycticorax* in South Carolina.

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[Moosehorn Natl. Wildl. Refuge, Calais, ME] *Scolopax minor* in Maine.

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[Natl. Audubon Soc. Res. Dep., 115 Indian Mound Trail, Tavernier, FL 33070] *Ajaia ajaja*.

90-003952 Spendelow, Jeffrey A. AN ASSESSMENT OF THE REPRODUCTIVE SUCCESS OF BREEDING ROSEATE TERNS USING NATURAL SITES, HALF-BURIED TIRES, AND WOODEN NEST BOXES ON FALKNER ISLAND, CONNECTICUT, IN 1989. *Colon. Waterbird Soc. Newsl.* 13(2):18. 1989. Abstract only. WR 217
[U.S. Fish & Wildl. Serv., Patuxent Wildl. Res. Cent., Laurel, MD 20708] *Sterna dougallii*.

90-003953 Stawarczyk, Tadeusz. [IDENTIFICATION OF SKUAS IN JUVENILE AND POST-NUPTIAL PLUMAGES.] *Notatki Ornitol.* 26(3-4):177-191. 1985. In Polish with English summ. WR 217
[Muz. Przyrodnicze UWr, ul. Sienkiewicza 21, 50-335 Wroclaw, Poland] *Stercorarius pomorinus, S. parasiticus,* and *S. longicaudus*.

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90-003954 CONTINUED
[1720 Bowness Rd. NW, Calgary, AB, Canada T2N 3K2] *Larus marinus, L. argentatus,* and *L. delawarensis* in Canada.

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[Dep. Biol., Southeast Mo. State Univ., Cape Girardeau 63701] *Sterna albifrons* in the United States.

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[Biol. Dep., Andrews Univ., Berrien Springs, MI 49104] *Cepphus columba* and *Brachyramphus marmoratus.*

90-003958 Tremauville, Yves. [AN OYSTERCATCHER ALBINISTIC.] *Cormoran* 6(3):217. 1988. In French with English summ. WR 217
[55 rue Calvaire, 76190 Yvetot, France] *Haematopus ostralegus.*

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[Mus. Civico Storia Nat., Villa Gardella, 15060 Stazzano, Italy]

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90-003962 Utmar, Paolo. [NESTING OF SQUACCO HERON, *ARDEOLA RALLOIDES,* IN FRIULI-VENEZIA GIULIA (NE ITALY).] *Riv. Ital. Ornitol.* 59(1-2):131-132. 1989. In Italian with English summ. WR 217
[Osserv. Faunistico Provincia Gorizia, Corso Italia 55, 34170 Gorizia, Italy]

90-003963 Utmar, Paolo. [NESTING OYSTERCATCHER, *HAEMATOPUS OSTRALEGUS,* IN FRIULI-VENEZIA GIULIA (NE ITALY).] *Riv. Ital. Ornitol.* 59(1-2):132-133. 1989. In Italian with English summ. WR 217
[Osserv. Faunistico Provincia Gorizia, Corso Italia 55, 34170 Gorizia, Italy]

90-003964 Vegelin, J. C. G. [BREEDING OF HERRING GULLS *LARUS ARGENTATUS* AND LESSER BLACK-BACKED GULLS *L. FUSCUS* ON ROOFS IN IJMUIDEN.] *Limosa* 62(3):154-155. 1989. In Dutch with English summ. WR 217
[Snippenbos 20, 1974 XX IJmuiden, Netherlands]

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[Dep. Ecol. & Evol. Biol., Univ. Calif., Irvine 92717] *Calidris ruficollis* in California.

90-003966 Walsh, Joan. SALTWATER AND FRESHWATER HABITAT USE BY WOOD STORKS (*MYCTERIA AMERICANA*) AT CUMBERLAND ISLAND NATIONAL SEASHORE. *Colon. Waterbird Soc. Newsl.* 13(2):26. 1989. Abstract only. WR 217
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90-003967 Ward, David. FEEDING ECOLOGY OF CROWNED, BLACKWINGED AND LESSER BLACKWINGED PLOVERS. *Ostrich* 60(3):97-102. 1989. WR 217
[Mitrani Cent. Desert Ecol., Blaustein Inst. Desert Res., Ben Gurion Univ. Negev, Sede Boqer Campus 84993, Israel] *Vanellus coronatus*, *V. melanopterus*, and *V. lugubris* in South Africa.

90-003968 Watson, Adam. DOTTEREL POPULATIONS AND SPACING ON THREE SCOTTISH AREAS IN 1967-86. *Ornis Fenn.* 66(3):85-99. 1989. In English with Finnish summ. WR 217
[Inst. Terrestrial Ecol., Banchory AB3 4BY, Scotland] *Eudromias morinellus*.

90-003969 Whiteside, Andrew J. THE BEHAVIOUR OF BITTERNS AND THEIR USE OF HABITAT. *Notornis* 36(2):89-95. 1989. WR 217
[31 Milverton Ave., Palmerston North, New Zealand] *Botaurus poiciloptilus* in New Zealand.

90-003970 Wieloch, Maria. [SEPARATION OF CHICK AND JUVENILE COMMON TERN AND ARCTIC TERN.] *Notatki Ornitol.* 26(3-4):197-200. 1985. In Polish with English summ. WR 217
[Stacja Ornitol. IZ PAN, ul. Nadwislanska 108, 80-680 Gdansk 40, Poland] *Sterna hirundo* and *S. paradisaea*.

90-003971 Wieloch, Maria. [RENEWED RECORD OF ARCTIC TERN BREEDING AT THE MOUTH OF THE VISTULA.] *Notatki Ornitol.* 26(3-4):230-232. 1985. In Polish with English summ. WR 217
[Stacja Ornitol. IZPAN, ul. Nadwislanska 108, 80-680 Gdansk 40, Poland] *Sterna paradisaea* in Poland.

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[Australian Antarctic Div., Dep. Arts, Sport, & Environ., Channel Hwy., Kingston, Tasm. 7050, Australia]

90-003973 Wood, K. A. SEASONAL ABUNDANCE, MARINE HABITATS AND BEHAVIOUR OF SKUAS OFF CENTRAL NEW SOUTH WALES. *Corella* 13(4):97-104. 1989. WR 217
[7 Eastern Ave., Mangerton, N.S.W. 2500, Australia] *Catharacta skua*, *C. maccormicki*, *Stercorarius pomarinus*, *S. longicaudus*, and *S. parasiticus* in Australia.

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BOOK REVIEW

Kingdon, Jonathan. *East African Mammals. An Atlas of Evolution in Africa*. The University of Chicago Press, 5801 S. Ellis Ave., Chicago, IL 60637. Individual paperback volumes available from the publisher at the following prices: Vol. I, 456 pp, $35.00; Vol. IIA, 404 pp., $32.50; Vol IIB, 429 pp., $32.50; Vol. IIIA, 491 pp, $37.50; Vol. IIIB, 442 pp., $37.50; Vol. IIIC, 414 pp., $32.50; Vol. IIID, 358 pp., $32.50.

During 1989, the University of Chicago Press published the final four volumes of Kingdon's monumental illustrated natural history of East African mammals. These four volumes, together with the first three volumes published by Chicago in 1984, complete the series; readers interested in Africa, mammals, or both, can now obtain the entire set. Each of the paperback volumes is priced considerably less than when published by Academic Press and the reasonable price will allow many to add these valuable references to their library. The bindings are glued but seem secure and the covers are of thick paper stock providing some protection from use. Both black and white and color plates are admirable reproduced. Overall, the volumes are a bargain.

For those unacquainted with the series, the subjects of each volume are: Vol. I, introduction, primates, hyraxes, pangolins, protoungulates, and sirenians; Vol. IIA, insectivores and bats; Vol. IIB, hares and rodents; Vol. IIIA, carnivores; Vol. IIIB, large mammals (elephants, rhinos, zebras, bushpigs, warthogs, hippos, camels, chevrotains, and giraffes); Vol. IIIC, bovids (cattle, water buffalo, kudus, elands, dwarf antelopes, duikers, reedbucks, and waterbucks); Vol. IIID, bovids (gazelles, impalas, wildebeests, oryxes, sheep, and goats). All but the last volume have color plates and all have line drawings and maps. Typically each volume contains appendices, as well as gazetteers, bibliographies, and systematic and subject indexes.

The geographical area of coverage comprises, strictly speaking, the countries of Kenya, Tanzania, and Uganda. As the author argues, this area has been an arena of historical interactions between forest and savanna vegetation. Thus, although East Africa is not a natural faunal unit, it is representative of an extensive zone of overlap between forest and savanna faunas, which broadens the effective coverage of the volumes. In addition, the area has a number of endemic mammal species, which Kingdon emphasizes. Maps depict the range of most species both in East Africa and throughout the continent. The text contains distinguishing features of species as well as noteworthy aspects of their natural history. In addition, illustrated "keys" (not the dichotomous kind) will assist the reader in identifying animals.

However, and as pointed out by earlier reviewers, perhaps the true wealth of the volumes is in the countless drawings by Kingdon, trained as an artist. The figures include color plates depicting pelage patterns, as well as the more-or-less standard black and white line drawings of skulls, skeletons, musculature, overlays of muscles on bone, and teeth. But the range of subjects depicted is staggering and every page seems to have another accurately rendered and aesthetically pleasing drawing. Each species usually is pictured in full at the beginning of the chapter. Some of the most endearing figures are those depicting behaviors and postures of individual animals. These sheets of "quick sketches" are designed to remind the reader of the "plasticity, complexity and ceaseless activity" of mammals. They do this admirably well, and in the process almost come to life on the page.

The University of Chicago Press is to be commended for reprinting these volumes and making them available to a wider audience. Hopefully, there will be those who take advantage of the opportunity; to miss Kingdon's work is to be scientifically, as well as artistically, poorer.—Michael A. Bogan, National Ecology Research Center, 4512 McMurray Avenue, Fort Collins, CO 80525-3400.

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BOOK REVIEW

Odum, E. P. 1989. *Ecology and Our Endangered Life-Support Systems.* Sinauer Associates, Incorporated, Sunderland, MA 01375-0407. 283 pp. Available from the publisher at $14.95 (paper).

This is a book that applies the author's approaches to community and ecosystem ecology using examples from current problems facing our society. This is an excellent exposition that is suitable for advanced high school students or introductory lower division college courses in systems or ecosystem ecology. Although much of the material is dated, recent references that seem pertinent are included.

The tone for the book is set by a prologue that compares the Apollo 13 crisis with the current ecological crisis that faces "Spaceship Earth." An epilogue, "The transition from youth to maturity," presents the reader with the rationale for a more rational use of the earth's resources, rather than an unlimited economic growth policy that would eventually cripple the earth's capacity for life as we know it.

Chapters in the new treatment include "the life support environment" that discusses both natural and man-derived environments on the earth and the general proportion of each; "levels of organization" that considers hierarchical levels of both ecological and economic systems as well as the elements of model building; "the ecosystem" treats the energy and energy flow in ecosystems and communities; "material cycles" on the hydrological cycle, elemental cycles, resource flows, and toxicological contamination of the biosphere; "population ecology" on population growth forms and models, and 2-species interactions; "development and evolution" on succession, ecosystem speciation, and island biogeographic concepts; and "major ecosystem types" that includes discussions of the major world ecosystems and the ecological problems they face.

Teachers of introductory biology or ecology classes that include a segment on ecology or environmental problems should consider using this book as an excellent exposition of the ecological problems that face mankind. – Paul A. Opler, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Suite 212, Fort Collins, CO 80524.

BOOK REVIEW

Eisenberg, John F. 1989. *Mammals of the Neotropics. Volume I. The Northern Neotropics*. The University of Chicago Press, 5801 S. Ellis Ave., Chicago, IL 60637. 449 pp. Available from the publisher at $85.00 (cloth) or $34.95 (paper).

Mammalogists working in North America may not often stop to ponder their good fortune in having so many reliable and current guides for reference use. Such references include Hall's (1981) indispensable volumes on North American mammals, as well as a multitude of state and regional works that provide data on distribution, systematics, and various aspects of natural history. Such references help frame hypotheses for additional research. The situation for those working on South American mammals is much different. Our cumulative knowledge on that diverse and distinct mammal fauna (449 terrestrial and marine species in the northern neotropics, according to Eisenberg) has yet to be pulled together and mammalogists must rely on scattered original literature, often outdated, and the few local syntheses that exist [e.g., Husson (1978) for Suriname]. Eisenberg's book, although not the "Hall of South America," comes closer than anything to date. The first of three planned volumes, this book covers mammals from Panama, Colombia, Venezuela, Guyana, Suriname, and French Guiana.

Following acknowledgments and introduction, the book commences with a chapter on historical biogeography and contemporary habitats of northern South America. Eisenberg briefly reviews the often conflicting theories of mammal invasions and then discusses the physical structure, climate, and vegetation of the continent, with specific reference to the northern neotropics. He recognizes ten biogeographic regions and lists characteristic "endemic" nonvolant species of each region. The bulk of the book, over 400 pages, consists of chapters on the 13 orders of mammals occurring in the northern neotropics. These chapters begin with background comments on diagnoses, distribution, and history and classification of the order. In hierarchial fashion, families and genera are similarly treated; diagnostic characters are presented and distribution and natural history are discussed. The species accounts include physical descriptions (often with measurements), notes on range and preferred habitat, and more on natural history. Species accounts vary in length and content but as the author notes (p. 4), a mixed presentation of data should not perturb readers as our knowledge of species varies. Keys to subfamilies, genera, and some species are included for the more problematic groups (marsupials, bats, and rodents); other groups need no keys given the 21 plates and 84 figures presented to aid identification. Distribution maps with both shading and actual locations are provided for most species.

There is a chapter on speciation and faunal affinities of mammals in the northern neotropics with interesting sections on mammals of islands (with lists for major islands) and mountaintops. This is followed by a chapter on mammalian community ecology. All chapters have a list of references and the book includes indexes of both scientific and common names. Given the magnitude of the task and the result, as exemplified by this volume, the author is overly modest about his effort. Although there may be others more qualified to undertake the task (as the author notes), no one else has accomplished it to date. I highly recommend this "state of the art for reference" to those with an interest in Neotropical mammals; it will be some time before it is superseded. – Michael A. Bogan, National Ecology Research Center, 4512 McMurray Avenue, Fort Collins, CO 80525-3400.

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BOOK REVIEW

Birks, Hilary H., H. J. B. Birks, Peter Emil Kaland and Dagfinn Moe, editors. 1988. *The Cultural Landscape—Past, Present and Future*. Cambridge University Press, 32 East 47th Street, New York, NY 10022. xviii + 521 pp. Available from the publisher at $69.50 (cloth).

This book is a compilation of the proceedings of the international symposium held in western Norway in July, 1986. The symposium was in celebration of the 100 year anniversary of the Botanical Institute of Bergen, which was founded at the Botanical Museum in 1886.

A major theme within the volume is that few landscapes are truly natural and that most bear the imprint of man (the cultural landscape), whether this imprint is subtle because of light, occasional grazing or massive because of mechanized agriculture and urbanization. Many of the papers within the volume try to describe the cultural landscape after comparing landscape fragments that are considered natural. The volume is divided into two major portions—the first part describes present and predicts future landscapes, and part two provides historical perspectives. A third section acknowledges presentations and poster sessions for which no publishable manuscript was developed.

Part one consists of 11 chapters that describe the present-day cultural landscape and document processes that influence the floristic, vegetational, and ecological patterns of that landscape. Changes to landscapes are described in terms of singular events like pollarding (the harvest of leaves and twigs from trees as animal fodder), which impacts the individual trees, to extensive analyses that incorporate pollen diagrams and historical and archeological records that describe how man's activities have modified woodland landscapes. Highly mechanized agriculture is described as a technology that, in the last 40 years, has largely removed the last remnants of the prehistoric cultural landscape (fence rows, hedges, ponds, and other features considered obstacles to agriculture), which had been created over centuries. Modern agriculture has impacted both plant and animal diversity. Monocultures can be expected to increase the rate of future extinctions of the remnant floral and faunal components found in the cultural landscapes of the early 20th century.

The eighteen chapters that comprise part two are primarily descriptive in form. They represent the different approaches used in cultural landscape research in Europe to describe the impact of prehistoric and recent man on landscape and vegetation. Pollen analysis is the dominant technique discussed. Emphasis is placed on the spatial and temporal distribution patterns of pollen to help describe the sequence of increases or declines in tree species on a regional scale, presumably because of climatic, ecological, or anthropological factors; the timing of man's transition from hunter-gatherer (Mesolithic time) to agriculturalist (Neolithic time); and the nature of the progressive change, especially evident in the last 1,000 years, from a natural to a cultural landscape. Changes in land use and cultural landscapes over past centuries are evaluated within a context of burgeoning human population, the basic fertility of soils, climatic considerations, and restricting social systems.

The text provides an impressive reporting of how man's historic environment can be reconstructed by detailed pollen analyses, and of how prehistoric and recent man have impacted landscapes and vegetation. The fact that Neolithic man already was producing extinctions and that man's evolution can be measured in terms of the rate and magnitude of his environmental impact is sobering.

The text does have flaws. Many maps depicting study locations are not suitable for an international audience unfamiliar with the local geography of northern and western Europe. In addition, the vernacular for some local landscapes will not be familiar to American readers and many abbreviations are not explained in the text. These are problems that always occur when specialized, regional papers are written for and read to peers and then later printed and distributed to an international audience.—Henry L. Short, U.S. Fish and Wildlife Service, Office of Scientific Authority, Arlington Square Building, Mail Stop: Room 725, 18th & C St., NW, Washington, D.C. 20240.

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BOOK REVIEW

Hoffmeister, Donald F. 1989. *Mammals of Illinois*. University of Illinois Press, 54 E. Gregory Drive, Champaign, IL 61820. xvii + 348 pp. Available from the publisher at $34.95 (cloth).

Dr. Hoffmeister began work at the University of Illinois in 1946 and has been collecting material for this book ever since. As he stated in the Preface, "The report will never be complete, regardless of the effort devoted to it," but his efforts to date are indeed impressive.

The book begins with a short history of the study of mammals in Illinois and a description of Illinois' physical geography and how it relates to the mammalian fauna. A few pages are devoted to the topics of Game and fur-bearing mammals; Endangered and Threatened mammals in Illinois; and Numbers, populations, and fluctuations of Illinois Mammals.

Mammals from the Pleistocene to Late 1800's are covered briefly—including extinct Pleistocene species and Recent species that were once almost eliminated by humans, such as the white-tailed deer. In a separate section, Hoffmeister covers extirpated and possible species in Illinois.

The remainder of the book is devoted to a systematic list of the species of mammals found in Illinois since 1900. The species accounts contain the usual information on range, physical characteristics, habitat, habits, food, reproduction, home range, and species variation. A list of county records is included. Many of the species are illustrated by a color plate; additional illustrations such as black-and-white photographs and line drawings are used to good effect throughout the text where needed. The book concludes with a glossary and literature cited section.

Overall, the book is quite attractive and well organized. It will be the standard reference on mammals in the state of Illinois.—Nancy M. Wells, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Fort Collins, CO 80524.

Roze, Uldis. 1989. *The North American Porcupine*. Smithsonian Institution Press, Department 900, Blue Ridge Summit, PA 17294. x + 261 pp. Available from the publisher at $29.95 (cloth) or $19.95 (paper).

Have you ever wondered how porcupines copulate? This book will inform you on that subject as well as just about anything else that you want to know about *Erethizon dorsatum*. Roze starts by describing his first encounter with porcupines—they were attempting to eat the walls of his cabin. He has been studying porcupines since the late 1970's, and in this book he covers a range of topics that vary from uses of the porcupine, through behavior, anatomy, reproduction, social structure, and parasites. The style is very personal—he describes in detail the effects of quills—while the information is mainly based on the scientific literature and Roze's research efforts. I can recommend the book for its scientific content as well as its readability.—Nancy M. Wells, U.S. Fish and Wildlife Service, Office of Information Transfer, 1025 Pennock Place, Fort Collins, CO 80524.

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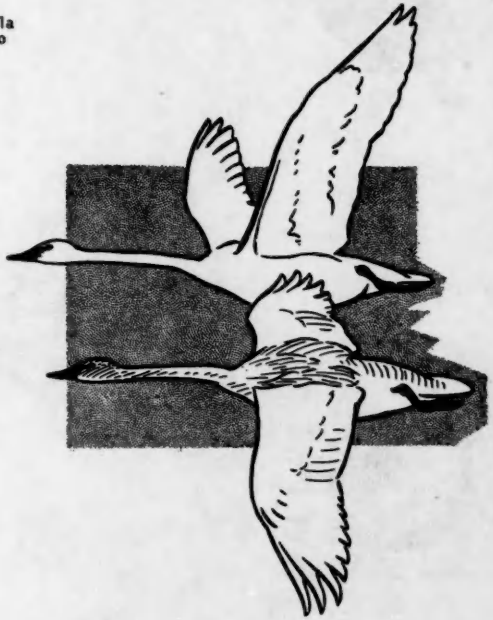

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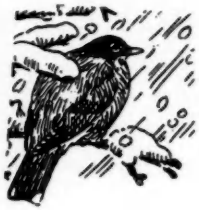

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